Hydraulics & Pneumatics 1967 Editorial Index

AEROSPACE EQUIPMENT, INCLUDING GSE

Advanced Hydraulics at the Farnborough Air Show
By John A. Lankester Aug. p 110
Aerospace Dollars-Seeds of Future Industrial Designs Nov. p 140
Aircraft Hydraulics Studied in Panama Jungle Jul. p 110
A Trip to the Moon Begins With an Apollo/Saturn V Transporter
By D. Buchanan Dec. p 90
Cassegrain Gaging Checks Rocket Positioning
By S. Schonfeld Apr. p 127
Designing Expansion Fittings Into the Airframe Structure
By J. R. Crissey Feb. p 85
Digital-Pneumatic Servoactuator for Cable Is Regenerative
By Victor H. C. Heine Aug. p 105
Fluid Power Hardware on S-IC Stage Dec. p. 86
High Performance Wire Cloth Filters
By Joseph B. Wiley, Jr. Sep. p 129
Hydraulic Design of Japan's YS-11
By Minoru Ohta Jul. p 103
Hydraulic Failure Detection Pioneered in Titan Servo Module
By Dennie H. Neill Oct. p 115
Hydraulics on the Boeing SST Mar. p 122
New SAE Airs on Pneumatic Engine Starting and on Cryogenic Propellants Sep. p 137
Separator Deaerates Oil, Stops Shimmy on F-104 Nose Wheel
By R. M. Livesey and M. H. Ettinger Oct. p 151
S-IC Fueldraulic Gimbaling System for Saturn V
By M. A. Kalange and R. J. Alcott Dec. p 81
Static Testing the Boeing 737 Sep. p 136
Thrust Vector Controls for Solid Rockets
By Paul Sullivan and Frank Kovitch May p 109
Wheel Perimeter Seal Replaces Wheel-Well Doors on Boeing 737
By R. E. Forrester Oct. p 154

AIR COMPRESSORS, VACUUM PUMPS & ASSOCIATED EQUIPMENT

Compressors-Quick Guide to Product Selection Jan. p 93
Consider These Facts When Selecting an Air Compressor
By M. V. Hogan Jul. p 163
Dehydrators-Quick Guide to Product Selection Jan. p 107
USASI Symbols—Part 2
By Edward Conlin May p 90
Vacuum Pumps—Quick Guide to Product Selection Jan. p 95

ASSOCIATION & TECHNICAL MEETINGS, SURVEYS, STANDARDS

Advanced Hydraulics at the Farnborough Air Show
By John A. Lankester Aug. p 110
Fluid Power Preview of SAE Aerospace Conference in June May p 116
SAE Documents on Engine Starting and Cryogenic Propellants Sep. p 137
Fluid Power Dominates SAE Show Nov. p 56
Midwest Fluid Power Show Attracts 7000 June p 46
NCFP Visitors Praise Program Dec. p 34
Second Annual Mobile Hydraulics Seminar Nov. p 52
23rd National Conference on Fluid Power Oct. p 47

BASIC TECHNOLOGY

Applied Fluidics—Its Impact on Industry—Part 1 Users Guide to Fluidic Information Feb. p 65
Applied Fluidics—Its Impact on Industry—Part 2 Interface Devices
By Carlos Pinkstaff Apr. p 114
Changing to Fire Resistant Fluid is as Easy as 1-2-3-4-5
By Calvin Wilcox Dec. p 97
Choosing the Right Hydrostatic Drive
By B. F. Vogelaar Sep. p 97
Consider These Facts When Selecting an Air Compressor
By M. V. Hogan Jul. p 163
Contamination Effects on Servovalves It is Really Still a Problem?
By L. Jack Williams Apr. p 87
Effects of Air on Hydraulic Systems
By Vincent G. Magorien Oct. p 128
Electrohydraulic Servovalves
By Tobi Goldoftas Nov. p 122
Fluid Power Hardware on S-IC Stage Dec. p 86
Fluidic/Pneumatic Oscillator Uses Tuning Fork for High Accuracy Sep. p 109
High Performance Wire Cloth Filters
By Joseph B. Wiley, Jr. Sep. p 129
How to Live with Fire-Resistant Fluids
By Kenneth Goodman Jun. p 113
How You Can Sense with Fluidics
By Robert Kunkel Dec. p 94
How Logic Circuitry Controls High Speed Machinery
By Roy Nutt Sep. p 118
Hydrostatic Transmissions Past, Present, Future
By Walter Ernst Nov. p 134
Is Leakage Inevitable?
By Edwin Jacobs Nov. p 126
Is Your Hydraulic Hose Safe for Use with High Voltage Equipment? Apr. p 108
Low Speed, High Torque Motors How They're Used—What's Available
By Jack Metzger Sept. p 104
Measuring Coefficient of Friction in Servovalves
By S. Tsai and P. Ukrainetz Jun. p 118
Molecular Sieves Tie Up Trace Moisture
By N. J. Pappas Feb. p 80
More on Fluidic Bibliography Jun. p 101
New Materials for Seals—Part 2
By Edwin Jacobs Feb. p 75
New Materials for Seals—Part 3
By Edwin Jacobs Mar. p 111
New Materials for Seals—Part 4 Leathers New Look
By Edwin Jacobs Apr. p 120
Nine Ways to Use Hydrostatic Transmission Circuits
By William Meisel Oct. p 144
Optimum Piston Area for Minimum Time Response
By Joseph Gartner, Howard Harrison and Terry Terman Jun. p 106
Pneumatic Logic Troubleshoots Fluid Power
By R. J. Bailey Jul. p 88
Rotary Output Comes of Age
By Jack Metzger Nov p 130
Separator Deaerates Oil, Stops Shimmy on F-104 Nose Wheel
By R. M. Livesey and M. H. Ettinger Oct. p 151
Six Ways to Use Magnetic Plugs
By Richard K. Graham Oct. p 126
Specifying Quick Disconnect Couplings
By Robert E. Dunn Jul. p 98
Understanding Fluidic Elements
By Ben Otsap Oct. p 141
USASI Symbols—Part 1
By Edward Conlin Mar. p 90
USASI Symbols—Part 2
By Edward Conlin May p 90
USASI Symbols—Part 3
By Edward Conlin Jul. p 94
Variable Sequencing with Pneumatic Controls
By F. E. Sanville Oct. p 132

Hydraulics & Pneumatics 1967 Editorial Index

AEROSPACE EQUIPMENT, INCLUDING GSE

Advanced Hydraulics at the Farnborough Air Show
By John A. Lankester Aug. p 110
Aerospace Dollars-Seeds of Future Industrial Designs Nov. p 140
Aircraft Hydraulics Studied in Panama Jungle Jul. p 110
A Trip to the Moon Begins With an Apollo/Saturn V Transporter
By D. Buchanan Dec. p 90
Cassegrain Gaging Checks Rocket Positioning
By S. Schonfeld Apr. p 127
Designing Expansion Fittings Into the Airframe Structure
By J. R. Crissey Feb. p 85
Digital-Pneumatic Servoactuator for Cable Is Regenerative
By Victor H. C. Heine Aug. p 105
Fluid Power Hardware on S-IC Stage Dec. p. 86
High Performance Wire Cloth Filters
By Joseph B. Wiley, Jr. Sep. p 129
Hydraulic Design of Japan's YS-11
By Minoru Ohta Jul. p 103
Hydraulic Failure Detection Pioneered in Titan Servo Module
By Dennie H. Neill Oct. p 115
Hydraulics on the Boeing SST Mar. p 122
New SAE Airs on Pneumatic Engine Starting and on Cryogenic Propellants Sep. p 137
Separator Deaerates Oil, Stops Shimmy on F-104 Nose Wheel
By R. M. Livesey and M. H. Ettinger Oct. p 151
S-IC Fueldraulic Gimbaling System for Saturn V
By M. A. Kalange and R. J. Alcott Dec. p 81
Static Testing the Boeing 737 Sep. p 136
Thrust Vector Controls for Solid Rockets
By Paul Sullivan and Frank Kovitch May p 109
Wheel Perimeter Seal Replaces Wheel-Well Doors on Boeing 737
By R. E. Forrester Oct. p 154

AIR COMPRESSORS, VACUUM PUMPS & ASSOCIATED EQUIPMENT

Compressors-Quick Guide to Product Selection Jan. p 93
Consider These Facts When Selecting an Air Compressor
By M. V. Hogan Jul. p 163
Dehydrators-Quick Guide to Product Selection Jan. p 107
USASI Symbols—Part 2
By Edward Conlin May p 90
Vacuum Pumps—Quick Guide to Product Selection Jan. p 95

ASSOCIATION & TECHNICAL MEETINGS, SURVEYS, STANDARDS

Advanced Hydraulics at the Farnborough Air Show
By John A. Lankester Aug. p 110
Fluid Power Preview of SAE Aerospace Conference in June May p 116
SAE Documents on Engine Starting and Cryogenic Propellants Sep. p 137
Fluid Power Dominates SAE Show Nov. p 56
Midwest Fluid Power Show Attracts 7000 June p 46
NCFP Visitors Praise Program Dec. p 34
Second Annual Mobile Hydraulics Seminar Nov. p 52
23rd National Conference on Fluid Power Oct. p 47

BASIC TECHNOLOGY

Applied Fluidics—Its Impact on Industry—Part 1 Users Guide to Fluidic Information Feb. p 65
Applied Fluidics—Its Impact on Industry—Part 2 Interface Devices
By Carlos Pinkstaff Apr. p 114
Changing to Fire Resistant Fluid is as Easy as 1-2-3-4-5
By Calvin Wilcox Dec. p 97
Choosing the Right Hydrostatic Drive
By B. F. Vogelaar Sep. p 97
Consider These Facts When Selecting an Air Compressor
By M. V. Hogan Jul. p 163
Contamination Effects on Servovalves It is Really Still a Problem?
By L. Jack Williams Apr. p 87
Effects of Air on Hydraulic Systems
By Vincent G. Magorien Oct. p 128
Electrohydraulic Servovalves
By Tobi Goldoftas Nov. p 122
Fluid Power Hardware on S-IC Stage Dec. p 86
Fluidic/Pneumatic Oscillator Uses Tuning Fork for High Accuracy Sep. p 109
High Performance Wire Cloth Filters
By Joseph B. Wiley, Jr. Sep. p 129
How to Live with Fire-Resistant Fluids
By Kenneth Goodman Jun. p 113
How You Can Sense with Fluidics
By Robert Kunkel Dec. p 94
How Logic Circuitry Controls High Speed Machinery
By Roy Nutt Sep. p 118
Hydrostatic Transmissions Past, Present, Future
By Walter Ernst Nov. p 134
Is Leakage Inevitable?
By Edwin Jacobs Nov. p 126
Is Your Hydraulic Hose Safe for Use with High Voltage Equipment? Apr. p 108
Low Speed, High Torque Motors How They're Used—What's Available
By Jack Metzger Sept. p 104
Measuring Coefficient of Friction in Servovalves
By S. Tsai and P. Ukrainetz Jun. p 118
Molecular Sieves Tie Up Trace Moisture
By N. J. Pappas Feb. p 80
More on Fluidic Bibliography Jun. p 101
New Materials for Seals—Part 2
By Edwin Jacobs Feb. p 75
New Materials for Seals—Part 3
By Edwin Jacobs Mar. p 111
New Materials for Seals—Part 4 Leathers New Look
By Edwin Jacobs Apr. p 120
Nine Ways to Use Hydrostatic Transmission Circuits
By William Meisel Oct. p 144
Optimum Piston Area for Minimum Time Response
By Joseph Gartner, Howard Harrison and Terry Terman Jun. p 106
Pneumatic Logic Troubleshoots Fluid Power
By R. J. Bailey Jul. p 88
Rotary Output Comes of Age
By Jack Metzger Nov p 130
Separator Deaerates Oil, Stops Shimmy on F-104 Nose Wheel
By R. M. Livesey and M. H. Ettinger Oct. p 151
Six Ways to Use Magnetic Plugs
By Richard K. Graham Oct. p 126
Specifying Quick Disconnect Couplings
By Robert E. Dunn Jul. p 98
Understanding Fluidic Elements
By Ben Otsap Oct. p 141
USASI Symbols—Part 1
By Edward Conlin Mar. p 90
USASI Symbols—Part 2
By Edward Conlin May p 90
USASI Symbols—Part 3
By Edward Conlin Jul. p 94
Variable Sequencing with Pneumatic Controls
By F. E. Sanville Oct. p 132

What You Should Know About Protective Covers
By T. E. Schoenauer Aug. p 102
What's Happening in Hydraulic Fluids? Nov p 129

CIRCUIT DESIGN

Airbags Power Press
By Don Beckett Mar. p 104
Air Converts Obsolete Machine to Accurate Mass Production
By Don Perkins and William Schmelz May p 94
Air Oil System Tests Jet Aircraft Tires
By Earl Loeffler Jun. p 108
Big Hydraulics
By M. W. Kraschnewski Mar. p 94
Central Hydraulics Drives Agitators, Beats Electro-Mechanical Drives
By Robert F. Curran and Julius Kendall May p 101
Electro-Hydraulic Controls Vary System Pressure and Volume
By Stephen Solomon Aug. p 92
Fail-Safe Hydraulics for a Stacker Crane
By Richard Stroh Feb. p 61
Fluid Power Packs Punch in Billet Marker
By Roger Gartside Mar. p 106
Fluidic Gage Inspects Auto Parts Then Accepts Them or Rejects Them
By Ivan Frock and John Clements Jun. p 97
Four Adjustable Speeds for Air/Oil Circuit
By C. T. Taylor Jun. p 116
Get More From Your Lift Truck—Add Hydraulic Attachments
By J. C. McPherson Oct. p 137
How An Application Engineer Designed a Basic Push-Pull Circuit
By Albert R. Price Apr. p 110
Hydraulic Design of Japans YS-11
By Minoru Ohta Jul. p 103
Hydraulic Failure Detection Pioneered in Titan Servo Module
By Dennie H. Neill Oct. p 115
Hydraulic Retarders Slow Railroad Cars
By Earl E. Frank Jul. p 85
Hydraulic Track Tests Underwater Traction
By F. A. Reidy May p 97
Hydraulics for a Tying Machine
By J. Micklewright Sep. p 124
Hydraulics Takes the Bus and Drives the Airconditioning for Us
By James Gagner Dec. p 100
Nine Ways to Use Hydrostatic Transmission Circuits
By William Meisel Oct. p 144
Pneumatic Feeder System Automates Bar Machine May p 106
Pneumatic Logic Troubleshoots Fluid Power
By R. J. Bailey Jul. p 88
Shake It Pneumatically
By Alfred Jacobs Jun. p 105
Shipboard Hydraulic System Unloads Petroleum Cargoes
By W. H. Marsh Aug. p 96
2000-GPM Water System Expands 20-Inch Diameter Pipe
By W. M. Schrey Mar. p 87
Variable Sequencing with Pneumatic Controls
By F. E. Sanville Oct. p 132
Water Hydraulic System Shears Blooms May p 87

COMPONENTS (See also Specific Components)

Accumulators—Quick Guide to Product Selection Jan. p 91
Actuators, Rotary—Quick Guide to Product Selection Jan. p 92
Advanced Hydraulics at the Farnborough Air Show
By John A. Lankester Aug. p 110
Airbags Power Press
By Don Beckett Mar. p 104
Air Converts Obsolete Machine to Accurate Mass Production
By Don Perkins and William Schmelz May p 94
Aircraft Hydraulics Studied in Panama Jungle Jul. p 110
Air Filters, Regulators, Lubricators and Dryers—Fluid Power Products Review Jan. p 151
Air Motors and Compressors—Fluid Power Products Review Jan. p 160
Air/Oil Servo Maintains Constant Coil Tension
By Robert R. Hill, P E. Jul. p 81
Air Oil System Tests Jet Aircraft Tires
By Earl Loeffler Jun. p 108
Applied Fluidics—Its Impact on Industry—Part 2 Interface Devices
By Carlos Pinkstaff Apr. p 114
Changing to Fire Resistant Fluid is as Easy as 1-2-3-4-5
By Calvin Wilcox Dec. p 97
Compressors—Quick Guide to Product Selection Jan. p 93
Consider These Facts When Selecting an Air Compressor
By M. V. Hogan Jul. p 163
Contamination Effects on Servovalves It is Really Still a Problem?
By L. Jack Williams Apr. p 87
Couplings, Quick-Connect — Quick Guide to Product Selection Jan. p 94
Cylinders—Quick Guide to Product Selection Jan. p 95
Cylinders, Rotary Actuators, and Intensifiers—Fluid Power Products Review Jan. p 164
Dehydrators—Quick Guide to Product Selection Jan. p 107
Designing Extension Fittings Into the A-7a Bomber
By J. R. Crissey Feb. p 85
Electrical Controls and Motors—Fluid Power Products Review Jan. p 174
Fail-Safe Hydraulics for a Stacker Crane
By Richard Stroh Feb. p 61
Filters, Air—Quick Guide to Product Selection Jan. p 99
Filters, Hydraulic—Quick Guide to Product Selection Jan. p 101
Fittings, Hose and Assembly—Quick Guide to Product Selection Jan. p 103
Fittings, Tube and Port—Quick Guide to Product Selection Jan. p 105
Fluid Power Hardware on S-IC Stage Dec. p 86
Fluid Power Packs Punch in Billet Marker
By Roger Gartside Mar. p 106
Fluidic Devices—Quick Guide to Product Selection Jan. p 104
Fluidic and Logic Devices — Fluid Power Products Review Jan. p 190
Fluidic/Pneumatic Oscillator Uses Tuning Fork for High Accuracy Sep. p 109
Fluidics, Hydraulic—Quick Guide to Product Selection Jan. p 106
Gauges, Pressure — Quick Guide to Product Selection Jan. p 108
Heat Exchangers — Quick Guide to Product Selection Jan. p 109
High Performance Wire Cloth Filters
By Joseph B. Wiley, Jr. Sep. p 129
How to Live with Fire-Resistant Fluids
By Kenneth Goodman Jun. p 113
How You Can Sense with Fluidics
By Robert Kunkel Dec. p 94
Hydraulic Filters—Fluid Power Products Review Jan. p 212
Hydrostatic Transmissions Past, Present, Future
By Walter Ernst Nov. p 134
Intensifiers—Quick Guide to Product Selection Jan. p 110
Is Your Hydraulic Hose Safe for Use with High Voltage Equipment? Apr. p 108
Jack-of-All-Trades Valve Improves Scissors Lift Design
By Dudley S. Clark Mar. p 100
Joints, Rotating and Swivel—Quick Guide to Product Selection Jan p 111
Low Speed, High Torque Motors How They're Used—What's Available
By Jack Metzger Sep p 104
Lubricators, Air Line—Quick Guide to Product Selection Jan. p 112
Measuring Coefficient of Friction in Servovalves
By S. Tsai and P. Ukrainetz Jun. p 118
Motors, Air—Quick Guide to Product Selection Jan. p 109
Motors, Hydraulic—Quick Guide to Product Selection Jan. p 113
New Materials for Seals—Part 2
By Edwin Jacobs Feb p 75
New Materials for Seals—Part 3
By Edwin Jacobs Mar. p 111
New Materials for Seals—Part 4 Leathers New Look
By Edwin Jacobs Apr. p 120
Nine Ways to Use Hydrostatic Transmission Circuits
By William Meisel Oct. p 144
Optimum Piston Area for Minimum Time Response
By Joseph Gartner, Howard Harrison and Terry Terman Jun. p 106
Piping Components—Fluid Power Products Review Jan. p 216
Power Units, Heat Exchangers, Fluids, and Reservoirs—Fluid Power Products Review Jan. p 226
Pumps, Fluid Motors, and Accumulators—Fluid Power Products Review Jan. p 228
Pumps, Hydraulic—Quick Guide to Product Selection Jan. p 115
Remotely Piloted Relief Valve Becomes Pressure Compensator
By Joseph A. Bronsard, P E Aug. p 99
Reservoir Accessories—Quick Guide to Product Selection Jan. p 118
Seals and Packings—Fluid Power Products Review Jan. p 236
Seals, Scrapers—Quick Guide to Product Selection Jan. p 119
Shake It Pneumatically
By Alfred Jacobs Jun. p 105
Shock Absorbers—Quick Guide to Product Selection Jan. p 118
Six Ways to Use Magnetic Plugs
By Richard K. Graham Oct. p 126
Specifying Quick Disconnect Couplings
By Robert E. Dunn Jul. p 98
Submarine Fluid Power Systems
By Walter Lagerwey Mar. p 117
Switches, Pressure—Quick Guide to Product Selection Jan. p 122
Tubing—Quick Guide to Product Selection Jan. p 123
USASI Symbols—Part 1
By Edward Conlin Mar. p 90
USASI Symbols—Part 2
By Edward Conlin May p 90
USASI Symbols—Part 3
By Edward Conlin Jul. p 94
Valves, Air and General Purpose—Fluid Power Products Review Jan. p 245
Valves, Hydraulic—Fluid Power Products Review Jan. p 254
Valves, Directional Control — Quick Guide to Product Selection Jan. p 124
Valves, Electrohydraulic Servo—Quick Guide to Product Selection Jan. p 129
Valves, Flow Control—Quick Guide to Product Selection Jan. p 130
Valves, Pressure Control—Quick Guide to Product Selection Jan. p 134
Variable Volume + Pressure Compensation = Controlled Feed Rates
By John E. Leonard, Jr. Oct. p 121

Water Hydraulic System Shears Blooms May p 87
What You Should Know About Protective Covers
By T. E. Schoenauer Aug. p 102

CYLINDERS, SHOCK ABSORBERS, INTENSIFIERS

Airbags Power Press
By Don Beckett Mar. p 104
Air Converts Obsolete Machine to Accurate Mass Production
By Don Perkins and William Schmeiz May p 94
Aircraft Hydraulics Studied in Panama Jungle Jul. p 110
Air/Oil Servo Maintains Constant Coil Tension
By Robert R. Hill, P E Jul. p 81
Air Oil System Tests Jet Aircraft Tires
By Earl Loeffler Jun. p 108
A Trip to the Moon Begins with an Apollo/Saturn V Transporter
By D. D. Buchanan Dec. p 90
Big Hydraulics
By M. W. Kraschnewski Mar. p 94
Cylinder-Clutches are Part-Time Links in a Servo Steering Linkage
By Donald Berger Sep. p 114
Cylinders—Quick Guide to Product Selection Jan. p 95
Dual, Tandem Servoactuator for Cable is Regenerative
By Victor H. C. Heine Aug. p 105
Fail-Safe Hydraulics for a Stacker Crane
By Richard Stroh Feb. p 61
Four Adjustable Speeds for Air/Oil Circuit
By C. T. Taylor Jun. p 116
How An Application Engineer Designed A Basic Push-Pull Circuit
By Albert R. Price Apr. p 110
Hydraulic Retarders Slow Railroad Cars
By Earl E. Frank Jul. p 85
Hydraulics for a Tying Machine
By J. Micklewright Sep. p 124
Intensifiers—Quick Guide to Product Selection Jan. p 110
Optimum Piston Area for Minimum Time Response
By Joseph Gartner, Howard Harrison and Terry Terman Jun. p 106
Shock Absorbers — Quick Guide to Product Selection Jan. p 118
Static Testing the Boeing 737 Sep. p 136
USASI Symbols—Part 2
By Edward Conlin May p 90
Variable Volume + Pressure Compensation = Controlled Feed Rates
By John E. Leonard, Jr. Oct. p 121

ELECTRIC MOTORS & CONTROLS

Electrical Controls and Motors—Fluid Power Products Review Jan. p 174
Gauges, Pressure — Quick Guide to Product Selection Jan. p 108
Switches, Pressure—Quick Guide to Product Selection Jan. p 122

FLUIDS, FILTERS, RESERVOIRS, HEAT EXCHANGERS

Changing to Fire Resistant Fluid is as Easy as 1-2-3-4-5
By Calvin Wilcox Dec. p 97
Effects of Air on Hydraulic Systems
By Vincent G. Magorien Oct. p 128
Filters, Air—Quick Guide to Product Selection Jan. p 99
Filters, Hydraulic — Quick Guide to Product Selection Jan. p 101
Fluidics, Hydraulic—Quick Guide to Product Selection Jan. p 106
Heat Exchangers — Quick Guide to Product Selection Jan. p 109
High Performance Wire Cloth Filters
By Joseph B. Wiley, Jr. Sep. p 129
How to Live with Fire-Resistant Fluids
By Kenneth Goodman Jun. p 113
Hydraulic Design of Japan's YS-11
By Minoru Ohta Jun. p 103
Hydraulic Filters—Fluid Power Products Review Jan. p 212
Is Contamination Control Possible?
By Edwin Jacobs Nov. p 128
Molecular Sieves Tie Up Trace Moisture
By N. J. Pappas Feb. p 80
Power Units, Heat Exchangers, Fluids, and Reservoirs—Fluid Power Products Review Jan. p 226
Reservoir Accessories—Quick Guide to Product Selection Jan. p 118
Separator Deaerates Oil, Stops Shimmy on F-104 Nose Wheel
By R. M. Livesey and M. H. Ettinger Oct. p 151
Servo Controlled Wedge Actuator Rolls Steel Sheets
By Gerald M. Lefoley Oct. p 108
Six Ways to Use Magnetic Plugs
By Richard K. Graham Oct. p 126
USASI Symbols—Part 3
By Edward Conlin Jul. p 94
Vertical Laminar Flow Clean Room Sep. p 136
What's Happening in Hydraulic Fluids? Nov. p 129

FLUID MOTORS, ROTARY ACTUATORS (Hydraulic & Pneumatic) & HYDROSTATIC TRANSMISSIONS

Actuators, Rotary—Quick Guide to Product Selection Jan. p 92
Choosing the Right Hydrostatic Drive
By B. F. Vogelaar Sep. p 97
Hydraulic Design of Japan's YS-11
By Minoru Ohta Jul. p 103
Hydraulics for a Tying Machine
By J. Micklewright Sep. p 124
Hydrostatic Transmissions Past, Present, Future
By Walter Ernst Nov. p 134
Low Speed, High Torque Motors How They're Used—What's Available
By Jack Metzger Sep. p 104
Motors, Air—Quick Guide to Product Selection Jan. p 109
Motors, Hydraulic—Quick Guide to Product Selection Jan. p 113
Nine Ways to Use Hydrostatic Transmission Circuits
By William Meisel Oct. p 144
Pumps, Fluid Motors, and Accumulators—Fluid Power Products Review Jan. p 228
Rotary Output Comes of Age
By Jack Metzger Nov. p 130
Shipboard Hydraulic System Unloads Petroleum Cargoes
By W. H. Marsh Aug. p 96
USASI Symbols—Part 2
By Edward Conlin May p 90

FLUIDICS & LOGICS

Applied Fluidics—Its Impact on Industry—Part 1 Users Guide to Fluidic Information Feb. p 65
Applied Fluidics—Its Impact on Industry—Part 2 Interface Devices
By Carlos Pinkstaff Apr. p 114
Fluidic Devices—Quick Guide to Product Selection Jan. p 104
Fluidic Gage Inspects Auto Parts Then Accepts Them or Rejects Them
By Ivan Frock and John Clements Jun. p 97
Fluidic and Logic Devices — Fluid Power Products Review Jan. p 190
Fluidic/Pneumatic Oscillator Uses Tuning Fork for High Accuracy Sep. p 109
Fluidics—Where Do We Stand Today? Apr. p 193
How You Can Sense with Fluidics
By Robert Kunkel Dec. p 94
How Logic Circuitry Controls High Speed Machinery
By Roy Nutt Sep. p 118
Logic Systems—Don't Panic
By Edward Conlin Nov. p 116
More on Fluidic Bibliography Jun. p 101
Pneumatic Logic Troubleshoots Fluid Power
By R. J. Bailey Jul. p 88
Understanding Fluidic Elements
By Ben Otsap Oct. p 141
Variable Sequencing with Pneumatic Controls
By F. E. Sanville Oct. p 132

MACHINE TOOLS

Electro-Hydraulic Controls Vary System Pressure and Volume
By Stephen Solomon Aug. p 92
Pneumatic Feeder System Automates Bar Machine May p 106
Power Unit Fires 10,000-PSI Shot
By William Sumpter Dec. p 98
Variable Volume + Pressure Compensation = Controlled Feed Rates
By John E. Leonard, Jr. Oct. p 121

MOBILE & MARINE EQUIPMENT

Aerospace Dollars—Seeds of Future Industrial Designs Nov. p 140
Big Hydraulics
By M. W. Kraschnewski Mar. p 94
Choosing the Right Hydrostatic Drive
By B. F. Vogelaar Sep p 97
Cylinder — Clutches Are Part-time Links in a Servo Steering Linkage
By Donald Berger Sep. p 114
Fail-Safe Hydraulics for a Stacker Crane
By Richard Stroh Feb. p 61
Get More From Your Lift Truck—Add Hydraulic Attachments
By J. C. McPherson Oct. p 137
How An Application Engineer Designed A Basic Push-Pull Circuit
By Albert R. Price Apr. p 110
Hydraulic Track Tests Underwater Traction
By F. A. Reidy May p 97
Hydraulics Takes the Bus and Drives the Airconditioning for Us
By James Gagner Dec. p 100
Hydrostatic Transmissions Past, Present, Future
By Walter Ernst Nov. p 134
Jack-of-All-Trades Valve Improves Scissors Lift Design
By Dudley S. Clark Mar. p 100

Shipboard Hydraulic System Unloads Petroleum Cargoes
By W. H. Marsh Aug. p 96
Submarine Fluid Power Systems
By Walter Lagerwey Mar. p 117

PACKINGS AND SEALS

Is Leakage Inevitable?
By Edwin Jacobs Nov. p 126
New Materials for Seals—Part 2
By Edwin Jacobs Feb. p 75
New Materials for Seals—Part 3
By Edwin Jacobs Mar. p 111
New Materials for Seals—Part 4 Leathers New Look
By Edwin Jacobs Apr. p 120
Seals and Packings—Fluid Power Products Review Jan. p 236
Seals, Scrapers—Quick Guide to Product Selection Jan. p 119
Wheel Perimeter Seal Replaces Wheel-Well Doors on Boeing 737
By R. E. Forrester Oct p 154

PIPING

Couplings, Quick-Connect — Quick Guide to Product Selection Jan p 94
Designing Extension Fittings Into the A-74 Bomber
By J. R. Crissey Feb. p 85
Fittings, Hose and Assembly—Quick Guide to Product Selection Jan. p 103
Fittings, Tube and Port—Quick Guide to Product Selection Jan. p 105
Is Your Hydraulic Hose Safe for Use with High Voltage Equipment? Apr. p 108
Joints, Rotating and Swivel—Quick Guide to Product Selection Jan. p 111
Piping Components—Fluid Power Products Review Jan. p 216
Specifying Quick Disconnect Couplings
By Robert E. Dunn Jul. p 98
Students Put Theory Into Practice Plumb System Boards Aug. p 91
Tubing—Quick Guide to Product Selection Jan. p 123
USASI Symbols—Part 2
By Edward Conlin May p 90

PNEUMATICS (Includes Air Filters, Lubricators, Dryers)

Air Filters, Regulators, Lubricators and Dryers—Fluid Power Products Review Jan. p 151
Air Motors and Compressors—Fluid Power Products Review Jan. p 160
Lubricators, Air Line—Quick Guide to Product Selection Jan. p 112
Shake It Pneumatically
By Alfred Jacobs Jun. p 105
Water Hydraulic System Shears Blooms May p 87

PRODUCTION EQUIPMENT (Including Central Hydraulic Systems)

Air/Oil Servo Maintains Constant Coil Tension
By Robert R. Hill, P E Jul. p 81
Fluid Power in an Automated Foundry
By Clifford Buck Sep. p 101
Fluid Power Packs Punch in Billet Marker
By Roger Gartside Mar. p 106
Fluidic Gage Inspects Auto Parts Then Accepts Them or Rejects Them
By Ivan Frock and John Clements Jun. p 97
How Logic Circuitry Controls High Speed Machinery
By Roy Nutt Sep. p 118
Hydraulics For a Tying Machine
By J. Micklewright Sep. p 124
Pneumatic Feeder System Automates Bar Machine May p 106
Power Unit Fires 10,000-PSI Shot
By William Sumpter Dec. p 98
Servo Controlled Wedge Actuator Rolls Steel Sheets
By Gerald M. Lefoley Oct. p 108
Shake It Pneumatically
By Alfred Jacobs Jun. p 105
2000-GPM Water System Expands 20-Inch Diameter Pipe
By W. M. Schrey Mar. p 87

PUMPS

Aircraft Hydraulics Studied in Panama Jungle Jul. p 110
Choosing the Right Hydrostatic Drive
By B. F. Vogelaar Sep. p 97
Electro-Hydraulic Controls Vary System Pressure and Volume
By Stephen Solomon Aug. p 92
Low Speed, High Torque Motors How They're Used—What's Available
By Jack Metzger Sep. p 104
Power Unit Fires 10,000-PSI Shot
By William Sumpter Dec. p 98
Pumps, Fluid Motors, and Accumulators—Fluid Power Products Review Jan. p 228
Pumps, Hydraulic—Quick Guide to Product Selection Jan. p 115
USASI Symbols—Part 2
By Edward Conlin May p 90
Water Hydraulic System Shears Blooms May p 87

SERVO SYSTEMS & COMPONENTS

Air/Oil Servo Maintains Constant Coil Tension
By Robert R. Hill, P E Jul. p 81
Contamination Effects on Servovalves. It is Really Still a Problem?
By L. Jack Williams Apr. p 87
Cylinder-Clutches Are Part-Time Links in a Servo Steering Linkage
By Donald Berger Sep. p 114
Dual, Tandem Servoactuator for Cable is Regenerative
By Victor H. C. Heine Aug. p 105
Electrohydraulic Controls Vary System Pressure and Volume
By Stephen Solomon Aug. p 92
Electrohydraulic Servovalves
By Tobi Goldoftas Nov. p 122
Hydraulic Failure Detection Pioneered in Titan Servo Module
By Dennie H. Neill Oct. p 115
Hydraulic Track Tests Underwater Traction
By F. A. Reidy May p 97
Measuring Coefficient of Friction in Servovalves
By S. Tsai and P. Ukrainetz Jun. p 118
Servo Controlled Wedge Actuator Rolls Steel Sheets
By Gerald M. Lefoley Oct. p 108

TRAINING TEST EQUIPMENT EDUCATION & MAINTENANCE

Air Oil System Tests Jet Aircraft Tires
By Earl Loeffler Jun. p 108
Applied Fluidics—Its Impact on Industry—Part 1 Users Guide to Fluidic Information Feb. p 65
Fluid Power Training for Mike, Stan, and Bob Aug. p 79
Fluidic Gage Inspects Auto Parts Then Accepts Them or Rejects Them
By Ivan Frock and John Clements Jun. p 97
Gauges, Pressure Switches, and Test Equipment — Fluid Power Products Review Jan. p 195
Growth Patterns in Fluid Power
By Alan L. Gustafson Nov. p 148
Hydraulis Takes the Bus and Drives the Airconditioning for Us
By James Gagner Dec. p 100
More on Fluidic Bibliography Jun. p 101
Students Put Theory Into Practice. Plumb System Boards Aug. p 91

VALVES

Air Converts Obsolete Machine to Accurate Mass Production
By Don Perkins and William Schmelz May p 94
Air Oil System Tests Jet Aircraft Tires
By Earl Loeffler Jun. p 108
Electro-Hydraulic Controls Vary System Pressure and Volume
By Stephen Solomon Aug. p 92
Four Adjustable Speeds for Air/Oil Circuit
By C. T. Taylor Jun. p 116
Hydraulic Track Tests Underwater Traction
By F. A. Reidy May p 97
Jack-of-All-Trades Valve Improves Scissors Lift Design
By Dudley S. Clark Mar. p 100
Remotely Piloted Relief Valve Becomes Pressure Compensator
By Joseph A. Bronsard, P E Aug p 99
Submarine Fluid Power Systems
By Walter Lagerwey Mar. p 117
Thrust Vector Controls for Solid Rockets
By Paul Sullivan and Frank Kovitch May p 109
USASI Symbols—Part I
By Edward Conlin Mar. p 90
Valves, Air and General Purpose—Fluid Power Products Review Jan. p 245
Valves, Hydraulic—Fluid Power Products Review Jan. p 254
Valves, Directional Control — Quick Guide to Product Selection Jan. p 124
Valves, Electrohydraulic Servo—Quick Guide to Product Selection Jan. p 129
Valves, Flow Control—Quick Guide to Product Selection Jan. p. 130
Valves, Pressure Control—Quick Guide to Product Selection Jan. p 134
Variable Volume + Pressure Compensation = Controlled Feed Rates
By John E. Leonard, Jr. Oct. p 121

AUTHOR INDEX

Alcott, R. J.
S-IC Fueldraulic Gimbaling System for Saturn V Dec. p 81

Bailey, R. J.
Pneumatic Logic Troubleshoots Fluid Power July p 88
Beckett, Don
Airbags Power Press Mar. p 104

Berger, Donald
Cylinder-Clutches Are Part-Time Links in a Servo Steering Linkage Sep. p 114

Bronsard, Joseph A., P.E.
Remotely Piloted Relief Valve Becomes Pressure Compensator Aug. p 99

Buchanan, D. D.
A Trip to the Moon Begins with an Apollo/Saturn V Transporter Dec. p 90

Buck, Clifford
Fluid Power in an Automated Foundry Sep. p 101

Clark, Dudley S.
Jack-of-All-Trades Valve Improves Scissors Lift Design Mar. p 100

Clements, John
Fluidic Gage Inspects Auto Parts; Then Accepts Them or Rejects Them June p 97

Conlin, Edward
USASI Symbols—Part 1 Mar. p 90
USASI Symbols—Part 2 May p 90
USASI Symbols—Part 3 July p 94
Logic Systems—Don't Panic Nov. p 116

Curran, Robert F.
Central Hydraulics Drives Agitators, Beats Electro-Mechanical Drives May p 101

Crissey, J. R.
Designing Extension Fittings into the A-7A Bomber Feb. p 85

Dunn, Robert E.
Specifying Quick Disconnect Couplings July p 98

Ernst, Walter
Hydrostatic Transmissions Past, Present, Future Nov. p 134

Ettinger, M. H.
Separator Deaerates Oil, Stops Shimmy on F-104 Nose Wheel Oct. p 151

Forrester, R. E.
Wheel Perimeter Seal Replaces Wheel-Well Doors on Boeing 737 Oct. p 154

Frank, Earl E.
Hydraulic Retarders Slow Railroad Cars July p 85

Frock, Ivan
Fluidic Gage Inspects Auto Parts; Then Accepts Them or Rejects Them June p 97

Gagner, James
Hydraulics Takes the Bus . . . and Drives the Airconditioning for Us Dec. p 100

Gartner, Joseph
Optimum Piston Area for Minimum Time Response June p 106

Gartside, Roger
Fluid Power Packs Punch in Billet Marker Mar. p 106

Goldoftas, Tobi
Fluid Power Training for Mike, Stan, and Bob Aug. p 79
Electrohydraulic Servovalves Nov. p 122

Goodman, Kenneth
How to Live with Fire-Resistant Fluids June p 113

Graham, Richard K.
Six Ways to Use Magnetic Plugs Oct. p 126

Gustafson, Alan L.
Growth Patterns in Fluid Power Nov. p 148

Harrison, Howard
Optimum Piston Area for Minimum Time Response June p 106

Heine, Victor H. C.
Dual, Tandem Servoactuator for Cable is Regenerative Aug. p 105

Hill, Robert R., P.E.
Air/Oil Servo Maintains Constant Coil Tension July p 81

Hogan, M. V.
Consider These Facts When Selecting an Air Compressor July p 163

Jacobs, Alfred
Shake It Pneumatically June p 105

Jacobs, Edwin
New Materials for Seals Feb. p 75
New Materials for Seals—Part 3 Mar. p 111
New Materials for Seals. Part 4: Leather's New Look April p 120
Is Leakage Inevitable? Nov. p 126
Is Contamination Control Possible Nov. p 128

Kalange, M. A.
S-IC Fueldraulic Gimbaling System for Saturn V Dec. p 81

Kelley, Thomas
Air System Cuts Maintenance and Production Costs Dec. p xx

Kendall, Julius
Central Hydraulics Drives Agitators, Beats Electro-Mechanical Drives May p 101

Kovitch, Frank
Thrust Vector Controls for Solid Rockets May p 109

Kraschnewski, M. W.
Big Hydraulics Mar. p 94

Kunkel, Robert
How You Can Sense with Fluidics Dec. p 94

Lagerwey, Walter
Submarine Fluid Power Systems Mar. p 117

Lankester, John A.
Advanced Hydraulics at the Farnborough Air Show Aug. p 110

Lefoley, Gerald M.
Servo Controlled Wedge Actuator Rolls Steel Sheets Oct. p 108

Leonard, John E., Jr.
Variable Volume + Pressure Compensation = Controlled Feed Rates Oct. p 121

Livesey, R. M.
Separator Deaerates Oil, Stops Shimmy on F-104 Nose Wheel Oct. p 151

Loeffler, Earl
Air Oil System Tests Jet Aircraft Tires June p 108

Magorien, Vincent G.
Effects of Air on Hydraulic Systems Oct. p 128

Marsh, W. H.
Shipboard Hydraulic System Unloads Petroleum Cargoes Aug. p 96

McPherson, J. C.
Get More From Your Lift Truck—Add Hydraulic Attachments Oct. p 137

Meisel, William
Nine Ways to Use Hydrostatic Transmission Circuits Oct. p 144

Metzger, Jack
Low Speed, High Torque Motors: How They're Used—What's Available Sep. p 104
Rotary Output Comes of Age Nov. p 130

Micklewright, J.
Hydraulics for a Tying Machine Sep. p 124

Neill, Dennie H.
Hydraulic Failure Detection Pioneered in Titan Servo Module Oct. p 115

Nutt, Roy
How Logic Circuitry Controls High Speed Machinery Sep. p 118

Ohta, Minoru
Hydraulic Design of Japan's YS-11 July p 105

Otsap, Ben
Understanding Fluidic Elements Oct. p 141

Pappas, N. J.
Molecular Sieves Tie Up Trace Moisture Feb. p 80

Perkins, Don
Air Converts Obsolete Machine to Accurate Mass Production May p 94

Pinkstaff, Carlos
Applied Fluidics—Its Impact on Industry—Part 2: Interface Devices Apr. p 114

Price, Albert R.
How an Application Engineer Designed a Basic Push-Pull Circuit Apr. p 110

Reidy, F. A.
Hydraulic Track Tests Underwater Traction May p 97

Sanville, F. E.
Variable Sequencing with Pneumatic Controls Oct. p 132

Schmelz, William
Air Converts Obsolete Machine to Accurate Mass Production May p 94

Schoenauer, T. E.
What You Should Know About Protective Covers Aug. p 102

Schonfeld, S.
Capacitance Gaging Checks Rocket Fuel Level Apr. p 127

Schrey, W. M.
2000-gpm Water System Expands 20-inch Diameter Pipe Mar. p 87

Solomon, Stephen
Electro-Hydraulic Controls Vary System Pressure and Volume Aug. p 92

Stroh, Richard
Fail-Safe Hydraulics for a Stacker Crane Feb. p 61

Sullivan, Paul
Thrust Vector Controls for Solid Rockets May p 109

Sumpter, William
Power Unit Fires 10,000-psi Shot Dec. p 98

Taylor, C. T.
Four Adjustable Speeds for Air/Oil Circuit June p 116

Terman, Terry
Optimum Piston Area for Minimum Time Response June p 106

Tsai, S.
Measuring Coefficient of Friction in Servovalves June p 118

Ukrainetz, P.
Measuring Coefficient of Friction in Servovalves June p 118

Vogelaar, B. F.
Choosing the Right Hydrostatic Drive Sep. p 97

Wilcox, Calvin
Changing to Fire Resistant Fluid is as Easy as 1-2-3-4-5 Dec. p 97

Wiley, Joseph B., Jr.
High Performance Wire Cloth Filters Sep. p 129

Williams, L. Jack
Contamination Effects on Servovalves It is Really Still a Problem? Apr. p 87